

ABSTRACT

The present invention provides a method for changing production ratios of carotenoid compounds in a process of microbiological production of a plurality of carotenoid compounds. By controlling the concentration of dissolved oxygen in the culture during cultivation, production ratios of carotenoid compounds such as astaxanthin, adonixanthin, β -carotene, echinenone, canthaxanthin, zeaxanthin, β -cryptoxanthin, 3-hydroxyechinenone, asteroidenone and adonirubin, are changed.

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